

**Notice of Allowability**

Application No.

09/627,177

Examiner

Nilesh Shah

Applicant(s)

NIELSEN ET AL.

Art Unit

2127

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/17/04.
2. ☒ The allowed claim(s) is/are 1, 3-9, 11-15, 17-23, 25-30; renumbered as claims 1-26.
3. ☒ The drawings filed on 27 July 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
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TECHNOLOGY CENTER 2100

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Francis Lammes (Reg. No. 55,353) on November 9, 2004.
3. The claims had been amended as following:

**(i) Replace claim 1 as follows:**

Claim 1. A method of updating an object association between a source object and a target object, comprising:

updating a target value holder of the target object with a new source to identify the source object, wherein the target value holder is an object that wrappers an instance of the source object in order to implement a proxy pattern; and

updating a source value holder of the source object with a new target to identify the target object,

wherein the source value holder is an object that wrappers an instance of the target object in order to implement a proxy pattern;

wherein if the object association is a one to one object association, the step of updating the target value holder includes:

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setting the new target in the target value holder from the source object, and

removing a target from an old target value holder in the source object, if the old target value holder already contains the target; and the step of updating the source value holder includes:

removing a source from an old source value holder in the target object, if the old source value holder already contains the source; and

setting the new source in the source value holder from the target object.

**(ii) Cancel claim 2.**

**(iii) Replace claim 9 as follows:**

Claim 9. A method of deleting an object association between a source object and a target object, comprising:

updating a source value holder of the source object to identify the target object, wherein the source value holder is an object that wrappers an instance of the target object in order to implement a proxy pattern; and

updating a target value holder of the target object to identify the source object,

wherein the target value holder is an object that wrappers an instance of the source object in order to implement a proxy pattern;

wherein if the object association is a one to many object association, the step of updating the source value holder includes:

setting a value in the source value holder to null;

and the step of updating the target value holder includes:

removing a target from an the target value holder in the source object, if the target value holder already contains the target.

**(iv) Cancel claim 10.**

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**(v) Replace claim 15 as follows:**

Claim 15. A computer program product in a computer readable medium for updating an object association between a source object and a target object, comprising:

first instructions for updating a target value holder of the target object with a new source to identify the source object, wherein the target value holder is an object that wrappers an instance of the source object in order to implement a proxy pattern; and

second instructions for updating a source value holder of the source object with a new target to identify the target object, wherein the source value holder is an object that wrappers an instance of the target object in order to implement a proxy pattern;

wherein if the object association is a one to one object association, the step of updating the target value holder includes:

setting the new target in the target value holder from the source object ,and

removing a target from an old target value holder in the source object, if the old target value holder already contains the target;

and the step of updating the source value holder includes:

removing a source from an old source value holder in the target object, if the old source value holder already contains the source; and

setting the new source in the source value holder from the target object.

**(vi) Cancel claim 16.**

**(vii) Replace claim 23 as follows:**

Claim 23. A computer program product in a computer readable medium for deleting an object association between a source object and a target object, comprising:

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first instructions for updating a source value holder of the source object to identify the target object, wherein the source value holder is an object that wrappers an instance of the target object in order to implement a proxy pattern; and

second instructions for updating a target value holder of the target object to identify the source object,

wherein the target value holder is an object that wrappers an instance of the source object in order to implement a proxy pattern;

wherein if the object association is a one to many object association, the step of updating the source value holder includes:

setting a value in the source value holder to null;

and the step of updating the target value holder includes:

removing a target from an the target value holder in the source object, if the target value holder already contains the target.

**(viii) Cancel claim 24.**

**(ix) Replace claim 29 as follows:**

Claim 29. An apparatus for updating an object association between a source object and a target object, comprising:

means for updating a target value holder of the target object with a new source to identify the source object, wherein the target value holder is an object that wrappers an instance of the source object in order to implement a proxy pattern; and

means for updating a source value holder of the source object with a new target to identify the target object,

wherein the source value holder is an object that wrappers an instance of the target object in order to implement a proxy pattern;

wherein if the object association is a one to one object association, the step of updating the target value holder includes:

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setting the new target in the target value holder from the source object, and

removing a target from an old target value holder in the source object, if the old target value holder already contains the target; and the step of updating the source value holder includes:

removing a source from an old source value holder in the target object, if the old source value holder already contains the source; and

setting the new source in the source value holder from the target object.

**(x) Replace claim 30 as follows:**

Claim 30. An apparatus for deleting an object association between a source object and a target object, comprising:

means for updating a source value holder of the source object to identify the target object, wherein the source value holder is an object that wrappers an instance of the target object in order to implement a proxy pattern; and

means for updating a target value holder of the target object to identify the source object,

wherein the target value holder is an object that wrappers an instance of the source object in order to implement a proxy pattern;

wherein if the object association is a one to many object association, the step of updating the source value holder includes:

setting a value in the source value holder to null;

and the step of updating the target value holder includes:

removing a target from an the target value holder in the source object, if the target value holder already contains the target.

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***Conclusion***


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nilesch Shah whose telephone number is (571)272-3771. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (571)272-3756.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nilesch Shah  
Examiner  
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NS  
November 9, 2004

  
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